



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Salman Akram

Serial No.: 10/791,191

Filed: March 2, 2004

For: METHOD OF IMPROVING COPPER

INTERCONNECTS OF

SEMICONDUCTOR DEVICES FOR

**BONDING** 

Confirmation No.: 1968

Examiner: A. Roman

Group Art Unit: 2812

Attorney Docket No.: 2269-3854.3US

98-0854.03/US

CERTIFICATE OF MAILING

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December 7, 2006

Leta M. Howard Name (Type/Print)

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 or PTO/SB/08 be considered by the Examiner and made of record. Copies of any cited foreign patents, publications, or pending unpublished U.S. applications are enclosed pursuant to 37 C.F.R. § 1.98(a)(2). ). The listed documents were cited by the Office in co-pending application Serial No. 11/142,981, filed on June 2, 2005, and directed to a related invention.

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicant herein that no other possible material information as defined in 37 C.F.R. § 1.56 (b) exists.

**U.S. Patent Documents** 

U.S. Patent No.	Publication Date	<u>Patentee</u>
US - 3,781,596	12/25/1973	Galli et al.
US - 4.985,310	01/15/1991	Agarwala et al.
US - 5,169,680	12/8/1992	Ting et al.
US - 6,100,194	08/08/2000	Chan et al.
US - 6,164,523	12/26/2000	Fauty et al.
US - 6,218,281	04/17/2001	Watanabe et al.
US - 6,417,088	07/09/2002	Ho et al.

Applicant offers to supply any explanation or discussion of the documents which the Examiner feels is necessary or desirable and which is requested.

This Supplemental Information Disclosure Statement is filed after the mailing date of the final Office Action under 37 C.F.R. § 1.113, but before payment of the issue fee.

I hereby certify that no item of information contained in the Supplemental Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the statement. Pursuant to 37 C.F.R. § 1.97(d)(ii), applicant hereby requests consideration of the accompanying Supplemental Information Disclosure Statement. The fee pursuant to 37 C.F.R. §1.17(p) for consideration of this Supplemental Information Disclosure Statement is enclosed.

Respectfully submitted,

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Date: December 7, 2006

JRD/nj:lmh

Enclosures: Form PTO-1449 or PTO/SB/08

Check No. 10513 in the amount of \$180.00

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Approved for use through 10/31/2002. OMB 0651-0031

2269-3854.3US (98-0854.03/US)

A. Roman

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Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE Application Number 10/791,191 March 2, 2004 Filing Date STATEMENT BY APPLICANT First Named Inventor Salman Akram Group Art Unit 2812 (use as many sheets as necessary) Examiner Name

Attorney Docket Number

U.S. PATENT DOCUMENTS						
Examiner Cite No. 1	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant	
	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear		
		US-3,781,596	12/25/1973	Galli et al.	•	
		US- 4.985,310	01/15/1991	Agarwala et al.		
		US- 5,169,680	12/8/1992	Ting et al.		
		US- 6,100,194	08/08/2000	Chan et al.		
		US- 6,164,523	12/26/2000	Fauty et al.		
		US- 6,218,281	04/17/2001	Watanabe et al.		
		US- 6,417,088	07/09/2002	Ho et al.		
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FOREIGN PATENT DOCUMENTS						
Examiner C	Cite	Foreign Patent Document	Publication Date Applicant of Cite	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т°
Initials*	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)		Applicant of Cited Document		
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.